

Contents

CELLULAR IMMUNOLOGY

- B. Bauvois, S. Ezine, B. Imhof, M. Denoyelle, and J.-P. Thiery 1077 A Role for the Thymic Epithelium in the Selection of Pre-T Cells from Murine Bone Marrow
- A. M. Carroll, R. R. Hardy, and M. J. Bosma 1087 Occurrence of Mature B(IgM⁺,B220⁺) and T(CD3⁺) Lymphocytes in Scid Mice
- G. Y. Ishioka, S. Colon, C. Miles, H. M. Grey, and R. W. Chesnut 1094 Induction of Class I MHC-Restricted, Peptide-Specific Cytolytic T Lymphocytes by Peptide Priming In Vivo
- D. H. Mattson, N. Shimojo, E. P. Cowan, J. J. Baskin, R. V. Turner, B. D. Shvetsky, J. E. Coligan, W. L. Maloy, and W. E. Biddison 1101 Differential Effects of Amino Acid Substitutions in the β -Sheet Floor and α -2 Helix of HLA-A2 on Recognition by Alloreactive vs Viral Peptide-Specific Cytotoxic T Lymphocytes
- S. S. Patel, M. C. Wacholtz, A. D. Duby, D. L. Thiele, and P. E. Lipsky 1108 Analysis of the Functional Capabilities of CD3⁺CD4⁻CD8⁻ and CD3⁺CD4⁺CD8⁺ Human Cell Clones
- S. Strober, S. Dejbachsh-Jones, P. Van Vlasselaer, G. Duwe, S. Salimi, and J. P. Allison 1118 Cloned Natural Suppressor Cell Lines Express the CD3⁺CD4⁻CD8⁻ Surface Phenotype and the α , β Heterodimer of the T Cell Antigen Receptor
- R. Testi, J. H. Phillips, and L. L. Lanier 1123 T Cell Activation via Leu-23 (CD69)

CLINICAL IMMUNOLOGY • IMMUNOPATHOLOGY

- M. Bouanani, M. Piechaczyk, B. Pau, and M. Bastide 1129 Significance of the Recognition of Certain Antigenic Regions on the Human Thyroglobulin Molecule by Natural Autoantibodies from Healthy Subjects
- T. P. Haverty, M. Watanabe, E. G. Neilson, and C. J. Kelly 1133 Protective Modulation of Class II MHC Gene Expression in Tubular Epithelium by Target Antigen-Specific Antibodies: Cell-Surface Directed Down-Regulation of Transcription Can Influence Susceptibility to Murine Tubulointerstitial Nephritis
- R. Lafyatis, N. L. Thompson, E. F. Remmers, K. C. Flanders, N. S. Roche, S.-J. Kim, J. P. Case, M. B. Sporn, A. B. Roberts, and R. L. Wilder 1142 Transforming Growth Factor- β Production by Synovial Tissues from Rheumatoid Patients and Streptococcal Cell Wall Arthritic Rats: Studies on Secretion by Synovial Fibroblast-Like Cells and Immunohistologic Localization
- S. Lederman, R. Gulick, and L. Chess 1149 Dextran Sulfate and Heparin Interact with CD4 Molecules to Inhibit the Binding of Coat Protein (gp120) of HIV
- M. Nagata, K. Yokono, M. Hayakawa, Y. Kawase, N. Hatamori, W. Ogawa, K. Yonezawa, K. Shii, and S. Baba 1155 Destruction of Pancreatic Islet Cells by Cytotoxic T Lymphocytes in Non-obese Diabetic Mice

CYTOKINES • MEDIATORS • REGULATORY MOLECULES

- H. Baumann and G. G. Wong 1163 Hepatocyte-Stimulating Factor III Shares Structural and Functional Identity with Leukemia-Inhibitory Factor

Continued on page 4

C. Bensimon, N. Wakasugi, Y. Tagaya, K. Takakura, J. Yodoi, T. Tursz, and H. Wakasugi	1168	Two Distinct Affinity Binding Sites for IL-1 on Human Cell Lines
J. P. J. Brakenhoff, M. Hart, and L. A. Aarden	1175	Analysis of Human IL-6 Mutants Expressed in <i>Escherichia coli</i> : Biologic Activities Are Not Affected by Deletion of Amino Acids 1-28
D. T. Brody and S. K. Durum	1183	Membrane IL-1: IL-1 α Precursor Binds to the Plasma Membrane via a Lectin-Like Interaction
I. L. Campbell, A. Cutri, A. Wilson, and L. C. Harrison	1188	Evidence for IL-6 Production by and Effects on the Pancreatic β -Cell
R. J. Debs, N. Düzgünes, E. N. Brunette, B. Fendly, J. Patton, and R. Philip	1192	Liposome-Associated Tumor Necrosis Factor Retains Bioactivity in the Presence of Neutralizing Anti-Tumor Necrosis Factor Antibodies
S. Heidenreich, J.-H. Gong, A. Schmidt, M. Nain, and D. Gemsa	1198	Macrophage Activation by Granulocyte/Macrophage Colony-Stimulating Factor: Priming for Enhanced Release of Tumor Necrosis Factor- α and Prostaglandin E ₂
T. A. Luger, J. Krutmann, R. Kirnbauer, A. Urbanski, T. Schwarz, G. Klappacher, A. Köck, M. Micksche, J. Malejczyk, E. Schauer, L. T. May, and P. B. Sehgal	1206	IFN- β_2 /IL-6 Augments the Activity of Human Natural Killer Cells
E. Maraskovsky, W.-F. Chen, and K. Shortman	1210	IL-2 and IFN- γ Are Two Necessary Lymphokines in the Development of Cytolytic T Cells
J. D. Watson, P. J. Morrissey, A. E. Namen, P. J. Conlon, and M. B. Widmer	1215	Effect of IL-7 on the Growth of Fetal Thymocytes in Culture
S. H. Zuckerman, G. F. Evans, Y. M. Snyder, and W. D. Roeder	1223	Endotoxin-Macrophage Interaction: Post-Translational Regulation of Tumor Necrosis Factor Expression

IMMUNOCHEMISTRY

G. Biesecker, J. L. Wagner, and T. E. Hugli	1228	The Release of C5a in Complement-Activated Serum Does Not Require C6
J. P. Deans, A. W. Boyd, and L. M. Pilarski	1233	Transitions from High to Low Molecular Weight Isoforms of CD45 (T200) Involve Rapid Activation of Alternate mRNA Splicing and Slow Turnover of Surface CD45R
R. Z. Dintzis, M. Okajima, M. H. Middleton, G. Greene, and H. M. Dintzis	1239	The Immunogenicity of Soluble Haptenated Polymers Is Determined by Molecular Mass and Hapten Valence
M. O. Labetta, N. Fernandez, A. Reyes, P. Ferrara, O. Marelli, E. Le Roy, J. Houlihan, and H. Festenstein	1245	Biochemical Analysis of a Novel H-2 Class I-Like Glycoprotein Expressed in Five AKR (Gross Virus)-Derived Spontaneous T Cell Leukemias
M. C. Poznansky, P. M. Clissold, and P. J. Lachmann	1254	The Difference between Human C3F and C3S Results from a Single Amino Acid Change from an Asparagine to an Aspartate Residue at Position 1216 on the α -Chain of the Complement Component C3
I. Seppälä and O. Mäkelä	1259	Antigenicity of Dextran-Protein Conjugates in Mice: Effect of Molecular Weight of the Carbohydrate and Comparison of Two Modes of Coupling
A. Sette, L. Adorini, S. M. Colon, S. Buus, and H. M. Grey	1265	Capacity of Intact Proteins to Bind to MHC Class II Molecules
A. Sette, A. Lamont, S. Buus, S. M. Colon, C. Miles, and H. M. Grey	1268	Effect of Conformational Propensity of Peptide Antigens in Their Interaction with MHC Class II Molecules. Failure to Document the Importance of Regular Secondary Structures
E. Ueda, T. Kinoshita, J. Nojima, K. Inoue, and T. Kitani	1274	Different Membrane Anchors of FC γ RIII (CD16) on K/NK-Lymphocytes and Neutrophils: Protein- vs Lipid-Anchor

IMMUNOPHARMACOLOGY

- R. W. Barton, R. Rothlein, J. Ksiazek, and C. Kennedy 1278 The Effect of Anti-Intercellular Adhesion Molecule-1 on Phorbol-Ester-Induced Rabbit Lung Inflammation
- T. Chatila, L. Silverman, R. Miller, and R. Geha 1283 Mechanisms of T Cell Activation by the Calcium Ionophore Ionomycin
- G. Chaudhri and I. A. Clark 1290 Reactive Oxygen Species Facilitate the In Vitro and In Vivo Lipopolysaccharide-Induced Release of Tumor Necrosis Factor
- S. Nakashima, A. Suganuma, M. Sato, T. Tohmatsu, and Y. Nozawa 1295 Mechanism of Arachidonic Acid Liberation in Platelet-Activating Factor-Stimulated Human Polymorphonuclear Neutrophils
- D. Santoli and R. B. Zurier 1303 Prostaglandin E Precursor Fatty Acids Inhibit Human IL-2 Production by a Prostaglandin E-Independent Mechanism
- R. P. Schleimer, C. P. Derse, B. Friedman, S. Gillis, M. Plaut, L. M. Lichtenstein, and D. W. MacGlashan, Jr. 1310 Regulation of Human Basophil Mediator Release by Cytokines. I. Interaction with Antiinflammatory Steroids

MICROBIAL IMMUNOLOGY

- P. Fitzgerald-Bocarsly, M. Feldman, S. Curl, J. Schnell, and T. Denny 1318 Positively Selected Leu-11a (CD16⁺) Cells Require the Presence of Accessory Cells or Factors for the Lysis of Herpes Simplex Virus-Infected Fibroblasts but Not Herpes Simplex Virus-Infected Raji
- A. Inatsuki, M. Yasukawa, and Y. Kobayashi 1327 Functional Alterations of Herpes Simplex Virus-Specific CD4⁺ Multifunctional T Cell Clones Following Infection with Human T Lymphotropic Virus Type I
- U. Kara, P. Pye, R. Lord, C. Pam, H. Gould, M. Geysen, G. Jones, D. Stenzel, C. Kidson, and A. Saul 1334 Immune Response to a Synthetic Peptide Corresponding to an Epitope of a Parasitophorous Vacuole Membrane Antigen from *Plasmodium falciparum*
- M. W. Riggs, T. C. McGuire, P. H. Mason, and L. E. Perryman 1340 Neutralization-Sensitive Epitopes Are Exposed on the Surface of Infectious *Cryptosporidium parvum* Sporozoites
- P. Willadsen, G. A. Riding, R. V. McKenna, D. H. Kemp, R. L. Tellam, J. N. Nielsen, J. Lahnstein, G. S. Cobon, and J. M. Gough 1346 Immunologic Control of a Parasitic Arthropod: Identification of a Protective Antigen from *Boophilus microplus*

MOLECULAR BIOLOGY • MOLECULAR GENETICS

- A. C. Davis, C. Collins, M. I. Yoshimura, G. D'Agostaro, and M. J. Shulman 1352 Mutations of the Mouse μ H Chain Which Prevent Polymer Assembly
- T. Ganz, J. R. Rayner, E. V. Valore, A. Tumolo, K. Tallmadge, and F. Fuller 1358 The Structure of the Rabbit Macrophage Defensin Genes and Their Organ-Specific Expression
- N. Mukaida, M. Shiroo, and K. Matsushima 1366 Genomic Structure of the Human Monocyte-Derived Neutrophil Chemotactic Factor IL-8
- M. Takiguchi, I. Nishimura, H. Hayashi, S. Karaki, A. Kariyone, and K. Kano 1372 The Structure and Expression of Genes Encoding Serologically Undetected HLA-C Locus Antigens
- W. M. Yokoyama, L. B. Jacobs, O. Kanagawa, E. M. Shevach, and D. I. Cohen 1379 A Murine T Lymphocyte Antigen Belongs to a Supergene Family of Type II Integral Membrane Proteins

TUMOR IMMUNOLOGY

J. D. Katz, L. T. Lebow, and B. Bonavida	1387	The In Vivo Depletion of V β 17A $^+$ T Cells Results in the Inhibition of Reticulum Cell Sarcoma Growth in SJL/J Mice: Evidence for the Use of Anticlonotypic Antibody Therapy in the Control of Malignancy
B. Vanhaesbroeck, J. Grooten, and W. Fiers	1396	An On Going In Vivo Immune Response Affects the Abundancy and Differentiation of Lymphokine-Activated Killer Cell Precursors, but Does Not Influence Their Broad Spectrum Target Reactivity
Erratum	1403	
Announcements	1403	
Author Index	1404	

Editorial

The Journal of Immunology is publishing an increasing number of papers that contain nucleic acid and protein sequences. Beginning January 1, 1990 the Journal of Immunology will adopt a policy requiring that authors submit their sequences directly to GenBank at the time of submission of a paper for publication.

On receiving a paper containing sequence data, the Journal office will send the authors a blank sequence submission form and instructions on submission. Authors should immediately submit this form to GenBank and if the submission is complete, GenBank will acknowledge receipt by assignment of an accession number within one week after receiving the submission. The authors should then inform the Journal office of the accession number by letter or by FAX. Blank submission forms are also available directly from GenBank and authors may also send a sequence to GenBank at any time before submission of a paper and then include the accession number with the submitted paper.

The above policy will be required for all papers submitted for publication and will pertain both to papers which are accepted and rejected for publication. Authors can request that GenBank not make a sequence public until the paper is published in the Journal of Immunology or if the manuscript is rejected until the paper is published in an alternative forum.

For further information, authors are advised to refer to the article by Christian Burks and Laurie J. Tomlinson in the Proc. Natl. Acad. Sci. USA, 86:408, 1989. Requests for submission forms, as well as submissions of new data and suggested revisions of data, can be directed to:

GenBank Submissions
T-10, MS K710
Los Alamos National Laboratory
Los Alamos, NM 87545 USA
telephone: 505-665-2177
telefax: 505-667-1754
electronic network mail: gb-sub%life@lanl.gov